

Engineered Wood Member (Except Truss) Manufacturing: 2002

Issued January 2005

EC02-311-321213 (RV)

2002 Economic Census

Manufacturing

Industry Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix

Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	--
7. Materials Consumed by Kind: 2002 and 1997.....	8

Appendixes

A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
321213, Engineered wood member (except truss) manufacturing	2002..	90	120	6 903	231 333	5 775	12 392	179 194	641 740	1 316 093	1 953 897	'34 978
2001..	N	N	N	5 724	193 583	4 932	11 091	154 889	583 350	1 165 356	1 755 446	18 683
2000..	N	N	N	5 709	185 192	4 844	10 925	141 393	495 571	1 165 735	1 690 861	59 991
1999..	N	N	N	5 884	192 765	5 049	11 699	150 127	537 359	1 243 101	1 766 770	84 216
1998..	N	N	N	5 811	173 489	4 869	10 887	132 829	560 184	1 066 818	1 620 870	69 985
1997..	32	53		5 372	154 564	4 469	9 701	118 939	476 346	974 548	1 431 123	53 742

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
321213, Engineered wood member (except truss) manufacturing												
United States	—	120	64	6 903	231 333	5 775	12 392	179 194	641 740	1 316 093	1 953 897	134 978
Alabama	—	6	3	499	18 074	424	955	14 433	74 941	109 959	178 076	13 058
California	1	10	2	381	13 177	283	595	8 514	34 916	65 225	100 158	1545
Oregon	—	18	13	1 430	48 437	1 232	2 605	39 614	145 187	311 557	461 014	111 405
Washington	3	10	7	276	7 178	252	554	6 285	16 210	29 578	45 752	1455

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
321213, Engineered wood member (except truss) manufacturing	
Companies ¹	number.. 90
All establishments ²	number.. 120
Establishments with 1 to 19 employees	number.. 56
Establishments with 20 to 99 employees	number.. 43
Establishments with 100 employees or more	number.. 21
All employees ³	number.. 6 903
Total compensation	\$1,000.. 293 750
Annual payroll	\$1,000.. 231 333
Total fringe benefits	\$1,000.. 62 417
Production workers, average for year	number.. 5 775
Production workers on March 12	number.. 5 673
Production workers on May 12	number.. 5 801
Production workers on August 12	number.. 5 849
Production workers on November 12	number.. 5 769
Production worker hours	1,000.. 12 392
Production worker wages	\$1,000.. 179 194
Total cost of materials	\$1,000.. 1 316 093
Materials, parts, containers, packaging, etc., used	\$1,000.. 1 235 827
Resales	\$1,000.. 40 263
Purchased fuels	\$1,000.. 7 671
Purchased electricity	\$1,000.. 23 182
Contract work	\$1,000.. 9 150
Quantity of electricity purchased for heat and power	1,000 kWh.. 467 077
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 1 953 897
Primary products value of shipments	\$1,000.. 1 838 101
Secondary products value of shipments	\$1,000.. 63 617
Total miscellaneous receipts	\$1,000.. 52 179
Value of resales	\$1,000.. 41 983
Contract receipts	\$1,000.. D
Other miscellaneous receipts	\$1,000.. D
Primary products specialization ratio	percent.. 97
Value of primary products shipments made in all industries	\$1,000.. 1 992 978
Value of primary products shipments made in this industry	\$1,000.. 1 838 101
Value of primary products shipments made in other industries	\$1,000.. 154 877
Coverage ratio	percent.. 92
Value added	\$1,000.. 641 740
Total inventories, beginning of year	\$1,000.. 181 832
Finished goods inventories	\$1,000.. 112 893
Work-in-process inventories	\$1,000.. 15 252
Materials and supplies inventories	\$1,000.. 53 687
Total inventories, end of year	\$1,000.. 193 837
Finished goods inventories	\$1,000.. 113 658
Work-in-process inventories	\$1,000.. 18 423
Materials and supplies inventories	\$1,000.. 61 756
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '948 533
Total capital expenditures (new and used)	\$1,000.. '34 978
Buildings and other structures (new and used)	\$1,000.. '6 821
Machinery and equipment (new and used)	\$1,000.. '28 157
Automobiles, trucks, etc., for highway use	\$1,000.. '1 701
Computers and peripheral data processing equipment	\$1,000.. '1 957
All other expenditures for machinery and equipment	\$1,000.. '24 499
Total retirements	\$1,000.. '13 479
Gross value of depreciable assets at end of year	\$1,000.. '970 032
Depreciation charges during year	\$1,000.. '62 638
Total rental payments	\$1,000.. 18 262
Buildings and other structures	\$1,000.. 9 883
Machinery and equipment	\$1,000.. 8 379
Total other expenses ⁴	\$1,000.. 61 167
Response coverage ratio ⁵	percent.. 52
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 7 141
Communications services ⁴	\$1,000.. 1 026
Legal services ⁴	\$1,000.. 430
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 362
Advertising and promotional services ⁴	\$1,000.. 463
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 619
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 1 275
Management consulting and administrative services ⁴	\$1,000.. 558
Taxes and license fees ⁴	\$1,000.. 4 827
All other expenses ⁴	\$1,000.. 44 465

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
321213, Engineered wood member (except truss) manufacturing											
All establishments	—	120	6 903	231 333	5 775	12 392	179 194	641 740	1 316 093	1 953 897	'34 978
Establishments with—											
1 to 4 employees	9	24	51	1 679	44	90	1 383	3 736	10 595	14 447	4 363
5 to 9 employees	7	11	73	2 467	57	128	2 104	6 902	14 270	21 333	'259
10 to 19 employees	5	21	291	8 712	245	522	6 937	23 513	46 945	70 214	'1 036
20 to 49 employees	1	29	f	D	D	D	D	D	D	D	D
50 to 99 employees	1	14	1 080	37 787	900	1 950	28 348	93 984	242 190	337 293	'7 338
100 to 249 employees	—	14	2 359	81 905	1 893	4 152	61 195	252 606	459 923	707 058	'6 012
250 to 499 employees	—	7	g	D	D	D	D	D	D	D	D
500 to 999 employees	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	18	80	2 680	70	151	2 242	7 667	15 385	23 052	'431

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
321213	Engineered wood member (except truss) manufacturing	120	6 903	231 333	5 775	12 392	179 194	641 740	1 316 093	1 953 897	'34 978
3212130	Engineered wood members (except trusses)	120	6 903	231 333	5 775	12 392	179 194	641 740	1 316 093	1 953 897	'34 978

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
321213	Engineered wood member (except truss) manufacturing	2002.. N	X	X	1 992 978
	1997.. N	N	X	X	1 326 062
3212130	Engineered wood members (except trusses)	2002.. N	X	X	1 992 978
	1997.. N	N	X	X	1 326 062
32121301	Laminated veneer lumber	2002.. N	X	X	511 256
	1997.. N	N	X	X	314 631
3212130111	Laminated veneer lumber mil bd ft.	2002.. 44	X	S	511 256
	1997.. 6	X	20.3	X	314 631
32121302	Other engineered structural wood members, except trusses and laminated veneer lumber	2002.. N	X	X	1 382 995
	1997.. N	N	X	X	1 011 431
3212130221	Glued laminated timber, beams mil bd ft.	2002.. 43	X	S	202 192
	1997.. 29	X	326.4	X	333 364
3212130231	Wood I-joists, I-beams mil lin ft.	2002.. 66	X	S	845 405
	1997.. 8	X	520.9	X	515 751
3212130241	Other engineered structural wood members mil cu ft.	2002.. 40	X	S	335 398
	1997.. 9	X	S	X	162 316
3212130Y	Engineered wood members (except trusses), nsk, total	2002.. N	X	X	98 727
	1997.. N	X	X	X	—
3212130YWW	Engineered wood members (except trusses), nsk, for nonadministrative-record establishments	2002.. N	X	X	76 275
	1997.. N	X	X	X	—
3212130YWY	Engineered wood members (except trusses), nsk, for administrative-record establishments	2002.. N	X	X	22 452
	1997.. N	X	X	X	—

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
321213	Engineered wood member (except truss) manufacturing		
00900001	Total materials .....2002..	X	1 235 827
	.....1997..	X	869 602
32100023	Hardwood rough lumber mil bd ft ..2002..	S	363 938
	.....1997..	N	N
32100029	Softwood rough lumber mil bd ft ..2002..	S	34 067
	.....1997..	N	N
32100027	Hardwood dressed lumber mil bd ft ..2002..	P3.3	2 437
	.....1997..	N	N
32100033	Softwood dressed lumber mil bd ft ..2002..	S	176 947
	.....1997..	P364.1	186 789
32121201	Softwood plywood mil sq ft sm ..2002..	D	D
	.....1997..	N	N
32742005	Gypsum building board .....2002..	X	199
	.....1997..	X	N
33251009	Builders' hardware (including door locks, locksets, lock trim, screen hardware, etc.) .....2002..	X	3 916
	.....1997..	X	N
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.) .....2002..	X	D
	.....1997..	X	N
00190056	Windows and window units, including wood, metal, and vinyl .....thousands..2002..	S	382
	.....1997..	N	N
32191100	Wood doors and door units .....2002..	X	D
	.....1997..	X	N
33232103	Metal doors and door units .....thousands..2002..	D	D
	.....1997..	N	N
33711000	Kitchen cabinets, wood .....2002..	X	D
	.....1997..	X	N
32121901	Reconstituted wood products (including particleboard, oriented strandboard, medium density fiberboard, and hardboard) .....2002..	X	92 300
	.....1997..	X	88 732
33232207	Metal siding, including aluminum, steel .....2002..	X	D
	.....1997..	X	N
33231201	Fabricated structural iron, steel, and aluminum (including truss plates) .....2002..	X	2 116
	.....1997..	X	N
001900B3	Current-carrying wiring devices (including switches, connectors, lampholders, etc.) .....2002..	X	D
	.....1997..	X	N
31411001	Floor coverings, textile .....2002..	X	D
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	436 946
	.....1997..	X	568 160
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	118 621
	.....1997..	X	25 921

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.